



advanced FLOW engineering

Instruction Manual P/N: 77-46309

Make: **MINI** Model: **Cooper S (F55/F56)** Year: **2015-2017** Engine: **L4-2.0L (t) B46/B48**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Module	R77-46309
B	1	LED Switch	05-70005
C	2	Velcro (2" Inches)	05-01244
D	4	Cable Ties	05-60167

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.



D



A

B



C

**Figure A****Refer to Figure A for Step 1.**

Step 1: Locate the MAP and TMAP sensors. The MAP sensor is located on top of the intake manifold towards the radiator. The TMAP sensor is located on the charge pipe just before the throttle body, underneath the air scoop.

INSTALL



Figure B

Refer to Figure B for Steps 2-3.

Step 2: Locate and disconnect the MAP sensor.

Step 3: Locate the MAP sensor jumper harness on the aFe module. The MAP harness will have three wires on the connectors. Plug the male connector of the module to the stock MAP sensor, then take the female connector of the module and connect to the male connector of the engine harness.

Note: Make sure connections are fully engaged. Usually, connectors make a snapping sound when fully engaged.



Figure C

Refer to Figures C for Step 4.

Step 4: Remove the air scoop from the air box by removing the two 10mm bolts, this will allow you to access the TMAP sensor.



Figure D

Refer to Figure D for Steps 5-6.

Step 5: Locate and disconnect the TMAP sensor.

Step 6: Locate the TMAP sensor jumper harness on the aFe module. The TMAP harness will have four wires on the connectors. Plug the male connector of the module to the stock TMAP sensor, then take the female connector of the module and connect to the male connector of the engine harness.

**Figure E****Refer to Figure E for Step 7.**

Step 7: Remove the windshield trim cover by rotating the two 10mm locking clips, and the other four clips can be rotated with a flathead screwdriver. This will give you access to the firewall to route the cable for the switch.

INSTALL



Figure F

Refer to Figure F for Steps 8-9.

Step 8: Carefully route the switch cable behind steering wheel cover.

Step 9: Mount the Switch on an open, flat surface.

**Figure G****Refer to Figure G for Step 10.**

Step 10: Route the switch cable through the grommet on the firewal and into the engine bay. Plug the end of the cable to the module.



Figure H

Refer to Figure H for Step 11.

Step 11: Mount the module in a safe location, using the supplied Velcro strip. We suggest to mount it on top of the battery. Then, secure the wires and module away from any extreme heat and moving parts, with the provided cable ties. Make sure all connections are secured and fully engaged



Refer to Figure I for Step 12.

Step 12: Reinstall the air scoop and windshield trim cover.



Figure J

Refer to Figure J for Step 13.

Step 13: When turning on the vehicle, the switch will go through the light. It will stop at its last setting.

The LED on the switch represents the different level of power.

- Green LED: Stock
- Yellow LED: Sport
- Orange LED: Sport+
- Red LED: Race

Use the grey button to select the desired setting. Power adjustments can be done at any moment.

Thank you for choosing aFe POWER!



OE Replacement Air Filter



P/N: 30-10256 (P5R)
31-10256 (PDS)

Cat-Back Exhaust System



P/N: 49-36331-B (Blk Tip)
49-36331-P (Pol Tip)

Cold Air Intake System



P/N: 51-12862 (PDS)
54-12862 (P5R)

Air Intake System Cover



P/N: 54-12868-B (Blk)
54-12868-C (C/F)

Warranty

General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"). Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

Product Category

P/N Prefix

Direct OE Replacement Filters	10, 11, 30, 31, 71, 73
Racing Filters	18
Universal	21, 24, 72, TF
Air Intake Systems	50, 51, 54, 55, 75, TR, TA, TL
Exhaust Systems	49
Intercoolers & Intercooler Tubes	46-2
Intake Manifolds	46-1
Differential Cover	46-7
Exhaust Manifolds	46
Throttle Body Spacers	46-3
Fluid Filters	44
Pre-Filters	28
Heavy Duty OE Replacement	70
PowerSports OE Replacement	81, 87
PowerSports Intake Systems	85
Tuners	77

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